SCI Communications

Gaps
with Non-Material Solution Approaches

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Actionable Intelligence

JCA: 14.0.0.0 Joint Special Operations and Irregular Warfare,
JCA: 9.3.0.0 Conduct Decisive Maneuver,
JCA: 14.2.0.0 Direct Action
JCA: 7.0.0.0 Joint Protection,
JCA: 14.4.0.0 Unconventional Warfare,
MCT 2.1 Plan and Direct Intelligence Operations,
MCT 2.1.1.5 Support Targeting
Deficiencies in Conditions: Limited ability to rapidly disseminate actionable intelligence and relevant products, to include sensor to shooter NRT data, to the lower tactical levels.
DOTMLPF Implications: D, O, T, M, P

Gap, Excess, or Shortfall

Equipment	Program of Record -TBD
Shortfall	Limited ability to rapidly disseminate actionable intelligence and relevant products, to include sensor to shooter NRT data, to the lower tactical levels.

Inputs Utilized for Analysis:

- EMW Capabilities List (2005-2019+) dtd 2005
- MCSIR-E ICD dtd JUL 2006 (Draft)
- Marine Corps Operating Concepts for a Changing Security Environment dtd MAR 2005
- UUNS – Tactical Video Link (UAV-to-Shooter), Persistent EO/IR Full-Motion Video UAV Capability
- MNF-W JUON – Angel Fire
- Marine Corps Midrange Threat Estimate: 2005-2015
- Current Funding Data: POM-08 and Supplemental
- Marine Corps Center for Lessons Learned Warfighting Program Evaluation Board POM-10 Guidance (Draft)

Current PORs

- Joint Surveillance Target Attack Radar System (JSTARS)
- Intelligence Analysis System (IAS)
- Intelligence Broadcast Receiver (IBR)
- Joint Worldwide Intelligence Communication System (JWICS)
- Trojan Spirit
- Small Unit Remote Scouting System (SURSS)
- Tactical Remote Sensor System (TRSS)
- Angel Fire (AF)
- Ground Based Observation and Surveillance System (G-BOSS)
- Tactical Concealed Video System (TCVS)
- Distributed Common Ground System (DCGS)

Data Mining and Dissemination

JCA: 4.5.2.0 Intelligence Architecture Development
MCT 2.3 Process and Exploit Collected Information / Intelligence
MCT 2.4 Produce Intelligence

Deficiencies in Conditions: Limited ability to efficiently identify and display in a usable format, key data within the volume of collected data requiring processing and exploitation.

DOTMLPF Implications: D, T, M

Inputs Utilized for Analysis:

- EMW Capabilities List (2005-2019+) dtd 2005
- MCSIR-E ICD dtd JUL 2006
- Marine Corps Operating Concepts for a Changing Security Environment dtd MAR 2005
- UUNS – Tactical Imagery Production System for production of PSYOPS material
- Marine Corps Midrange Threat Estimate: 2005-2015
- Current Funding Data: POM-08 and Supplemental
- Marine Corps Center for Lessons Learned Warfighting Program Evaluation Board POM-10 Guidance (Draft)

Gap, Excess, or Shortfall

Equipment	Program of Record -TBD
Shortfall	Limited ability to efficiently identify and display in a usable format, key data within the volume of collected data requiring processing and exploitation.

Current PORs

- Distributed Common Ground Station (DCGS)
- Global Communication and Control System – Integrated Imagery and Intelligence (GCCS-I3)
- Intelligence Analysis System (IAS)
- Intelligence Broadcast Receiver (IBR)
- Joint Worldwide Intelligence Communications System (JWICS)
- MAGTF Secondary Imagery Dissemination System (MSIDS)
- Tactical Exploitation Group (TEG)
- Tactical Exploitation of National Capabilities (TENCAP)
- Technical Control and Analysis Center (TCAC)

Multi-Level Security Dissemination

JCA: 4.5.2.0 Intelligence Architecture Development
JCA: 4.4.2.0 Dissemination and Integration
MCT 2.5 Disseminate and Integrate Intelligence

Deficiencies in Conditions: Inability to provide tailored, Multi-Level Security (MLS) products.

DOTMLPF Implications: D, O, T, M, P

Gap, Excess, or Shortfall

Equipment	Program of Record -TBD
Gap	Inability to provide tailored, Multi-Level Security (MLS) products.

Inputs Utilized for Analysis:

- EMW Capabilities List (2005-2019+) dtd 2005
- MCSIR-E ICD dtd JUL 2006 (Draft)
- Marine Corps Operating Concepts for a Changing Security Environment dtd MAR 2005
- Marine Corps Midrange Threat Estimate: 2005-2015
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- Warfighting Program Evaluation Board POM-10 Guidance (Draft)

Current PORs

- Distributed Common Ground Station (DCGS)
- Global Communication and Control System – Integrated Imagery and Intelligence (GCCS-I3)
- Joint Worldwide Intelligence Communication System JWICS
- Trojan Spirit
- Intelligence Analysis System (IAS)

Top Ten Gap Listing

- **SCI Communications enable the following prioritized IID gaps:**
  - IID Gap 1 - Actionable Intelligence
  - IID Gap 6 - Data Mining and Dissemination
  - IID Gap 9 - Multi-Level Security Dissemination
- **SCI Communications gaps that can be solved via Non-Material means:**
  - Gap 1 - 2651 MOS Responsibilities
  - Gap 2 - Maintenance of Current and Future SCI Comm Systems

Gap 1 - 2651 MOS
Impact on the MAGTF

- **2651 Marines are expected to be proficient in what amounts to 6 MOSs in comparable 06XX/28XX occupational fields.**
  - 0627 or 0628: Satellite Communications Operator (Trojan)
  - 0651: Data Network Specialist
  - 0656: Tactical Network System Specialist
  - 0689: Information Assurance Technician
  - 2834: Satellite Communications Technician
  - 2847: Telephone/Data Network System Repairer
- **MAGTF SCI Comm Quality of Service could suffer as one MOS is spread too thin in attempting to accomplish multiple, highly technical tasks.**
- **The gap was identified in the SCI Architecture Study (Draft)**

Gap 1 - 2651 MOS
New or Current Capability Issues

- **Was the gap identified because we are establishing a new capability?** No, however the gap may increase if new SCI Comm systems are fielded.
  - Future SCI Network Services materiel solutions
  - Future “tiers” of SCI transmission systems

- **Is there a similar or duplicative capability gap being analyzed?** No

- **Is the basic capability MC unique? If not, describe how this capability is addressed by other services. If another service also has a capability gap, describe its mitigation initiatives.**

  Yes

Gap 1 - 2651 MOS Integration Concerns

- **Describe critical linkage(s) to other Integration Division(s)**
- **C2 Integration Division**
  - **If the 2651 MOS is split, leverage focused training at current USMC schools:**
    - MCCES (29 Palms)
      - Most 06XX/28XX Schools
    - MARDET Ft. Gordon, GA
      - Current 0627 and 0628 Schools (SATCOM Operator)
  - **Makes sense as future SCI VSAT and Network Service systems should be very similar to those of the MAGTF C4 community**

Gap 1 - 2651 MOS
Possible DOTLPFM Impacts

- **Doctrine**
  - **What published doctrine addresses the capability? Is the published doctrine current?** N/A
  - **What doctrinal changes result from new/enhanced capabilities being introduced to mitigate this gap?** N/A

- **Organization**
  - **Assumptions: organizational change issues limited to adjustments within existing force structure.**
  - **What organizational changes, if any, will eliminate or mitigate the capability gap?** N/A

Gap 1 - 2651 MOS
DOTLPFM Impacts

- **Training**
  - **How could training be modified or provided to mitigate or eliminate the gap?**
    - If the MOS is not separated/realigned, a longer initial entry training pipeline is a possible COA
    - Current: MCRD → MCT → Corry Station, FL
    - Future Example: MCRD → MCT → Corry Station, FL → MCCES → Ft. Gordon, GA
  - **What training requirements are identified for the fielding of new equipment?** Currently N/A
  - **Who can provide the required training?**
    - MCCES (29 Palms)
      - Most 06XX/28XX Schools
    - MARDET Ft. Gordon, GA
      - Current 0627 and 0628 Schools (SATCOM Operator)

Gap 1 - 2651 MOS
DOTLPFM Impacts

- **Leadership and Education**
  - **Can leadership decisions mitigate gap?** No
  - **Can leadership experience/change is required to meet or mitigate gap?** No
  - **Is organizational leadership needed to support change?** No

- **Personnel**
  - **Realignment of the 2651 MOS is one possible COA**
    - Example: Divide 2651 into separate entry level MOSs that, for example, separate a SATCOM operator from a Data Network Specialist
    - Allows Marines of more specialized MOSs to be more proficient in highly technical areas
    - At the rank of SSgt or GySgt, all MOSs merge to a 2651 - SCI Comm Chief

Gap 1 - 2651 MOS
DOTLPFM Impacts

- **Facilities**
  - **Describe facility (include MILCON) changes required fully or partially to close the gap.**
    - N/A
  - **Are there theater facilities required?**
    - No
- **Materiel**
  - N/A

Possible Non-Materiel Solutions and Recommendation

- **MCCDC (IID and C2ID), IPP, Manpower, and TECOM coordinate to resolve the best course of action to fix the 2651 MOS**
  - COA 1: 2651 MOS Realignment/Division
  - COA 2: Extended 2651 initial entry pipeline to include more specialized training in each separate technical area

- **DISCUSSION…**

Top Ten Gap Listing

- **SCI Communications enable the following prioritized IID gaps:**
  - IID Gap 1 - Actionable Intelligence
  - IID Gap 6 - Data Mining and Dissemination
  - IID Gap 9 - Multi-Level Security Dissemination

- **SCI Communications gaps that can be solved via Non-Material means:**
  - Gap 1 - 2651 MOS Responsibilities
  - **Gap 2 - Maintenance of Current and Future SCI Comm Systems**

Gap 2 - SCI Comm System Maintenance Impact on the MAGTF

- **There is no formal policy or agreement in place to have current or future SCI Comm systems (currently Trojan) repaired within the MAGTF**
  - Currently supported by Army Trojan Program (Regional Support Centers) via the Trojan Project Office at MCSC
- **Without organic MAGTF repair support, current and future equipment readiness and timeliness of support could be an issue**
  - Aforementioned 2651 MOS (Trojan operators) are currently expected to conduct up to 3rd echelon maintenance
- **A lack of equipment readiness could leave the MAGTF commander without an SCI Comm capability**
- **The gap was identified in the SCI Architecture Study (Draft)**

Gap 2 - SCI Comm System Maintenance New or Current Capability Issues

- **Was the gap identified because we are establishing a new capability?** No, however the gap may increase if new SCI Comm systems are fielded.
  - SCI Network Services materiel solutions
  - Different “tiers” of SCI transmission systems

- **Is there a similar or duplicative capability gap being analyzed?** No

- **Is the basic capability MC unique? If not, describe how this capability is addressed by other services. If another service also has a capability gap, describe its mitigation initiatives.**

  Yes

Gap 2 - SCI Comm System Maintenance Integration Concerns

- **Describe critical linkage(s) to other Integration Division**
- **Logistics ID and C2ID**
  - Coordination with the above and TECOM to see if training the current 2834 MOS on Trojan maintenance is a viable plan
- **C2ID**
  - If future SCI Comm systems are similar to future MAGTF C4 systems, no additional training is necessary for 28XX MOSs to repair SCI Comm equipment

Gap 2 - SCI Comm System Maintenance Possible DOTLPFM Impacts

- **Doctrine and Policy**
  - **What published doctrine addresses the capability? Is the published doctrine current?** N/A
  - **What doctrinal changes result from new/enhanced capabilities being introduced to mitigate this gap?** N/A
  - **Policy:** Implement formal policy to have units with organic Communications-Electronics Maintenance Sections support the repair of SCI Comm equipment of "sister units"
    - MAW SSCTs supported by MWCS
    - Div SSCTs supported by Div Comm Company and ELMACO
    - RAD BN and INTEL BN supported by Comm Bn
- **Organization**
  - **What organizational changes, if any, will eliminate or mitigate the capability gap?** N/A

Gap 2 - SCI Comm System Maintenance DOTLPFM Impacts

- **Training**
  - **How could training be modified or provided to mitigate or eliminate the gap?**
    - Current 2834 MOS is trained to perform corrective maintenance on:
      - Current Trojan system
      - Future SCI Comm SATCOM systems (should be very similar to future MAGTF C4 systems)
  - **What training requirements are identified for the fielding of new equipment?** Currently N/A
  - **Who can provide the required training?**
    - MARDET Ft. Gordon, GA
      - Current 2834 School (SATCOM Technician)

Gap 2 - SCI Comm System Maintenance DOTLPFM Impacts

- **Leadership and Education**
  - **Can leadership decisions mitigate gap?** No
  - **Can leadership experience/change is required to meet or mitigate gap?** No
  - **Is organizational leadership needed to support change?** No

- **Personnel**
  - N/A

- **Facilities**
  - **Describe facility (include MILCON) changes required fully or partially to close the gap?** No
  - **Are there theater facilities required?** No

Gap 2 - SCI Comm System Maintenance DOTLPFM Impacts

- **Materiel**
  - **Are there current materiel solutions available to mitigate the capability gap?**
    - No
  - **Are there any current service/joint solutions available which meets the requested capability? If yes explain.**
    - No
  - **If new start describe recommended solutions.**
    - N/A
  - **If recommended solution is a material solution describe DOTMLPF implications.**
    - N/A

Possible Non-Materiel Solutions and Recommendations

- **MCCDC (IID, C2ID and Logistics ID) coordinate with HQMC, I&L to adopt/implement policy for current and future SCI Comm system repair**
  - Examples below:
    - MAW SSCTs supported by MWCS
    - Div SSCTs supported by Div Comm Company and ELMACO
    - RAD BN and INTEL BN supported by Comm Bn
- **Coordinate with MAGTF C4 community (C2ID and/or LID) to ensure current 28XX MOSs have the skill set to repair future SCI Comm systems**

BACKUP SLIDES